ABSTRACT

A method of implementing fast dynamic channel allocation call admission control for radio link reconfiguration in a wireless communication system includes a pre-code allocation procedure, a signal-independent code allocation procedure, and a post-code allocation procedure. The pre-code allocation procedure receives and processes a request message and retrieves system measurements and wireless transmit/receive unit (WTRU) capability information from a centralized database. A list of available timeslots and a list of code sets is retrieved from the centralized database. The code sets are allocated to the available timeslots, wherein a successful assignment is a solution. The solution having the lowest weighted interference signal code power is an optimal solution. The WTRU information with new allocation information is updated in the centralized database. A radio link reconfiguration ready message with the results of the code allocation process is then sent.